

## Naming Alkanes – Worksheet #2

Name the following branched alkanes:

1.	$\begin{array}{ccccccc} & & & & \text{CH}_2 & - & \text{CH}_2 & - & \text{CH}_3 \\ & & & &   & & & & \\ \text{H}_3\text{C} & - & \text{CH}_2 & - & \text{CH} & - & \text{CH}_2 & - & \text{CH} & - & \text{CH}_2 & - & \text{CH}_2 & - & \text{CH}_3 \\ & & & &   & & & & \\ & & & & \text{CH}_3 & & & & \end{array}$	
2.	$\begin{array}{ccccccc} & & \text{CH}_3 & & & & \\ & &   & & & & \\ \text{H}_3\text{C} & - & \text{CH}_2 & - & \text{C} & - & \text{CH}_2 & - & \text{CH} & - & \text{CH}_2 & - & \text{CH}_3 \\ & & & &   & & & &   & & \\ & & & & \text{CH}_3 & & & & \text{CH}_3 & & \end{array}$	
3.	$\begin{array}{ccccc} & & \text{CH}_3 & & \\ & &   & & \\ \text{H}_3\text{C} & - & \text{CH}_2 & - & \text{C} & - & \text{CH}_3 \\ & & & &   & & \\ & & & & \text{CH}_3 & & \end{array}$	
4.	$\begin{array}{ccccc} & & \text{CH}_3 & & \\ & &   & & \\ \text{CH}_3 & - & \text{C} & - & \text{CH}_3 \\ & &   & & \\ & & \text{CH}_3 & & \end{array}$	
5.	$\begin{array}{ccccccc} & & & & \text{CH}_2 & - & \text{CH}_3 \\ & & & &   & & \\ \text{H}_3\text{C} & - & \text{CH}_2 & - & \text{C} & - & \text{CH}_2 & - & \text{CH}_3 \\ & & & &   & & \\ & & & & \text{CH}_2 & - & \text{CH}_3 & \end{array}$	

6.	$  \begin{array}{c}  \text{CH}_3 \\    \\  \text{H}_3\text{C}-\text{CH}_2-\text{C}-\text{CH}_2-\text{CH}_3 \\    \\  \text{CH}_2-\text{CH}_3  \end{array}  $	
7.	$  \begin{array}{ccccccc}  & & \text{CH}_3 & & \text{CH}_3 & & \\  & &   & &   & & \\  \text{H}_3\text{C}- & \text{CH} & -\text{CH} & -\text{CH} & -\text{CH} & -\text{CH} & -\text{CH}_2-\text{CH}_3 \\    & & &   & &   & \\  \text{CH}_3 & & & \text{CH}_3 & & \text{CH}_3 &   \end{array}  $	

**Draw structural formulas for the following molecules.**

8. 2,2,3-trimethylbutane

9. 3-ethyl-2,2-dimethylhexane

10. 2,3,4,5,6,7-hexamethyloctane